

Notice of Allowability

Application No.

10/691,096

Examiner

Russell Frejd

Applicant(s)

LINDENBAUM

Art Unit

2128

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to Applicant's amendment received 6 October 2006.
2. ☒ The allowed claim(s) is/are 1-3.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

RUSSELL FREJD
RUSSELL FREJD
PRIMARY EXAMINER

In re Application of: Lindenbaum

Allowance of Application # 10/691,096

1. The following communication is in response to Applicant's Amendment received 6-October-2006.

Examiner's Amendment

2. An Examiner's Amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 C.F.R.

1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the Issue Fee.

2.1 In the Specification:

page 4 line 18 Delete --or <other>--.

2.2 In the Claims:

claim 1 line 1 in step (a) Change "launching an computer-aided" to --launching a
computer-aided--.

line 3 in step (b) Change "the mouse" to --a mouse--.

line 4 in step (n) Change "architectural objects" to --architectural objects;--.

claim 3 line 28 Change "portion configure to" to --portion configured to--.

In re Application of: Lindenbaum

Reasons for Allowance

3. The following is an Examiner's Statement of Reasons for the indication of allowable subject matter.

3.1 The instant application is directed to a non-obvious improvement over the information described the prior art, the most relevant of the prior art of record being the article authored by Hahnel et al., entitled *Learning Compact 3D Models of Indoor and Outdoor Environments with a Mobile Robot*, which discloses an algorithm for full 3D shape reconstruction of indoor and outdoor environments with mobile robots, wherein data is acquired with laser range finders installed on a mobile robot, and combined with an algorithm for approximating environments using flat surfaces.

3.2 The improvement comprises a method by which a 3 dimensional rendering of a plurality of rooms of an architectural structure can be generated by using a laser measuring device to communicatively map measurement data directly into a plurality of structural measurement fields contained in an architectural rendering software program, and using the measurement data, thereby create a computer model rendering of the architectural structure. These patentable distinctions are included in each of the independent claims, nos. 1 and 3.

3.3 For at least these reasons, the art of record, either individually or in combination, fails to teach, suggest, or render obvious the useful, concrete and tangible <3 dimensional rendering of a plurality of rooms of an architectural structure by communicatively mapping measurement data directly into a plurality of structural measurement fields> having the corresponding structure which is disclosed in the specification and equivalents thereof at least at page 4, line 16 through page 8, line 29, and Figures 1-16. In view of the foregoing, the claims of the present application are found to be patentable over the prior art.

In re Application of: Lindenbaum

Response Guidelines

4. Any comments considered necessary by applicant **MUST** be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should clearly be labeled "Comments on Statement of Reasons for Allowance".

4.1 Any response to the Examiner in regard to this allowance should be

directed to: Russell Frejd, telephone number (571) 272-3779, Monday-Friday from 0530 to 1400 ET, or the examiner's supervisor, Kamini Shah, telephone number (571) 272-2279. Inquires of a general nature or relating to the status of this application should be directed to the TC2100 Group Receptionist (571) 272-2100.

mailed to: Commissioner of Patents and Trademarks
P.O. Box 1450, Alexandria, VA 22313-1450

or faxed to: (571) 273-8300

Hand-delivered responses should be brought to the Customer Service Window, Randolph Building, 401 Dulany Street, Alexandria, VA, 22314.

Date: 11-November-2006

A handwritten signature in black ink that reads "RUSSELL FREJD". The signature is written in a cursive style with a horizontal line underneath it.

**RUSSELL FREJD
PRIMARY EXAMINER**